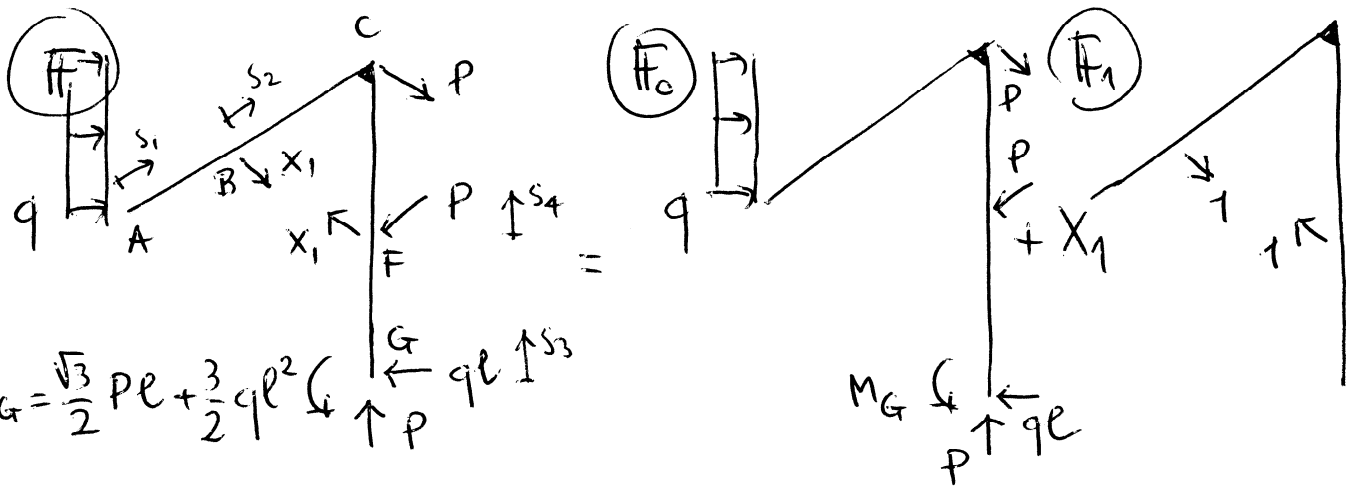


PS SdC I del 17.09.2010 - Ing. Aerosp. & Civile



CdS in F_0

	AB	BC	GF	FC
N_0	$-\frac{\sqrt{3}}{4} q s_1$	$-\frac{\sqrt{3}}{4} q (l + s_2)$	$-P$	$-\frac{1}{2} P$
T_0	$-\frac{1}{4} q s_1$	$-\frac{1}{4} q (l + s_2)$	$q l$	$q l + \frac{\sqrt{3}}{2} P$
M_0	$-\frac{1}{8} q s_1^2$	$-\frac{1}{8} q (l + s_2)^2$	$-\frac{\sqrt{3}}{2} P l - \frac{3}{2} q l^2 + q l s_3$	$-\frac{\sqrt{3}}{2} P l - \frac{1}{2} q l^2 + (q l + \frac{\sqrt{3}}{2} P) s_4$

CdS in F_1

	AB	BC	GF	FC
N_1	0	$-\frac{1}{2}$	0	$-\frac{1}{2}$
T_1	0	$-\frac{\sqrt{3}}{2}$	0	$\frac{\sqrt{3}}{2}$
M_1	0	$-\frac{\sqrt{3}}{2} s_2$	0	$\frac{\sqrt{3}}{2} s_4$

$$\eta_1 = -\frac{X_1}{EA} l - \varepsilon l \quad \eta_{10} = \frac{25\sqrt{3} q l^4}{192 EJ} - \frac{1}{8} \frac{P l^3}{EJ} \quad \eta_{11} = \frac{l^3}{2 EJ}$$

$$X_1 = -\frac{\frac{\sqrt{3}}{4} \frac{l^2}{EJ} (7 q l - \frac{1}{3} P) + \varepsilon}{\frac{l^2}{2 EJ} + \frac{l}{EA}} = \begin{cases} -\frac{19}{4} P & \text{(AEROSP.)} \\ -\frac{9}{17} P & \text{(CIVILI)} \end{cases}$$

$$\theta_G = M_G / k_0 = (\frac{\sqrt{3}}{2} P l + \frac{3}{2} q l^2) / k_0 \quad \delta_D = \delta_G \frac{\sqrt{3}}{2} l + \frac{P l}{EA} - \varepsilon l$$