

Frontón Recoletos

Datos. Valores de p, q, r, s, u, v, x
Valores auxiliares.

Datos y valores auxiliares

277.723₄

~~Desarrollo numérico.~~

Datos y valores auxiliares

Datos

$$l = 55,00 \text{ ut.}$$

$$R^I = 12,50 \text{ ''}$$

$$R^{II} = 6,40 \text{ ''}$$

$$g = 0,08 \text{ ''}$$

$$\varphi_i^I = 90^\circ$$

$$\varphi_d^I = 60^\circ$$

$$\varphi_i^{II} = 30^\circ$$

$$\varphi_d^{II} = 90^\circ$$

$$p = 250 \text{ Kg/m}^2$$

$$v = 100 \text{ ''} *$$

$$n = 65 \text{ ''}$$

$$P = 600 \text{ Kg ml.}$$

$$t = 8.200.000 \text{ Kg/m}^2$$

A continuación h₀ — — —

* Verse paginas 7 .

$$h_0' = + \frac{4}{\pi} = 1,2732$$

$$q_0' = + \frac{4l^2}{\pi^3} = 390,24$$

$$r_0' = + \frac{4l^4}{\pi^5} = 119,6069$$

$$s_0' = + \frac{4l}{\pi^2} = 22,292$$

$$u_0' = + \frac{4l^3}{\pi^4} = 6.832,82$$

$$\mu' = +\pi = 3,1415$$

$$v^I = \frac{\mu^2 R^2}{l^2} = 0,513$$

$$l^I = \frac{R}{g} \sqrt{3} = 270,64$$

$$v^{II} = 0,134$$

$$l^{II} = 138,57$$

$$h_0'' = - \frac{4}{3\pi} = -0,4244$$

$$q_0'' = - \frac{4l^2}{27\pi^3} = -14,435$$

$$r_0'' = - \frac{4l^4}{243\pi^5} = -492,215$$

$$s_0'' = - \frac{4l}{9\pi^2} = -2,4768$$

$$u_0'' = - \frac{4l^3}{81\pi^4} = -84,3552$$

$$\mu'' = -3\pi = -9,425$$

$$v^{II} = \frac{\mu^2 R^2}{l^2} = 4,617$$

$$l^{II} = \frac{R}{g} \sqrt{3} = 270,64$$

$$v^{II} = 1,21$$

$$l^{II} = 138,57$$

A continuation en p. _____

Valores auxiliares

$$\text{Sen } \gamma_i^I = \text{sen } 90^\circ = 1$$

$$\text{Cos } \gamma_i^I = \text{cos } 90^\circ = 0$$

$$\text{Sen } \gamma_d^I = \text{sen } 60^\circ = 0,866$$

$$\text{Cos } \gamma_d^I = \text{cos } 60^\circ = 0,500$$

$$l^2 = 55,00^2 = 3.025,0$$

$$l^4 = 9.150.625,0 \quad l^3 = 166.375,0$$

$$R^{I^2} = 12,5^2 = 156,25$$

$$R^{II^2} = 6,4^2 = 40,96$$

$$\pi = 3,1415 \quad \pi^2 = 9,869 \quad \pi^3 = 31,0063 \quad \pi^4 = 97,3975$$

$$\pi^5 = 306,0197 \quad 3\pi = 9,42478$$

$$\lambda^8 + z_1 \lambda^6 + z_2 \lambda^4 + z_3 \lambda^2 + W = 0$$

$$v^{1,1} = \frac{\mu^2 R^2}{r^2} = \frac{\pi^2 R^2}{r^2} = 0,513$$

$$2v^{1,1} \lambda^{1,1} = \sqrt{W} = 285,696$$

$$\lambda^{1,1} = \frac{R}{r} \sqrt{3} = 270,64$$

$$\rho = \sqrt[4]{2v^{1,1} \lambda^{1,1}} = 4,111$$

$$\rho^3 = 69,484$$

$$z_1 = 2(1 - v^{1,1}) = 0,974$$

$$\frac{z_1}{8\rho} = 0,030$$

$$z_2 = 1 - 4v^{1,1} + (v^{1,1})^2 = -0,789$$

$$z_3 = -2v^{1,1} + (v^{1,1})^2 = -0,763$$

$$\left(\frac{5z_1^2}{16} - z_2\right) \frac{1}{\rho^3} = 0,012$$

$$J_1 = 0,92388 \left(\rho - \frac{z_1}{8\rho}\right) + 0,04784 \left(\frac{5z_1^2}{16} - z_2\right) \frac{1}{\rho^3} = 3,371$$

$$K_1 = 0,38268 \left(\rho + \frac{z_1}{8\rho}\right) - 0,11548 \left(\frac{5z_1^2}{16} - z_2\right) \frac{1}{\rho^3} = 1,583$$

$$J_1' = 0,38268 \left(\rho - \frac{z_1}{8\rho}\right) - 0,11548 \left(\frac{5z_1^2}{16} - z_2\right) \frac{1}{\rho^3} = 1,560$$

$$K_1' = 0,92383 \left(\rho + \frac{z_1}{8\rho}\right) + 0,04783 \left(\frac{5z_1^2}{16} - z_2\right) \frac{1}{\rho^3} = 3,826$$