ΤΥΠΟΛΟΓΙΟ

$$F_{fr} = \mu \cdot R_N \ , \qquad F_{fr} = F \cdot \frac{\mu}{\eta\mu\alpha} \ ,$$

$$F_{fr} = \mu \cdot W \ , \qquad M_{tfr} = F_{fr} \cdot \frac{D}{2} \ , \qquad P = M_{tfr} \cdot \omega$$

$$\omega = \frac{2\pi}{60} \cdot n \ , \qquad r_m = \frac{r_1 + r_2}{2}$$

$$\eta\mu\beta = \frac{R - r}{O_1O_2} \ , \qquad \eta\mu\beta = \frac{R + r}{O_1O_2}$$

$$\theta_1 = 180^o - 2\beta \ , \quad \theta_2 = 180^o + 2\beta \ , \quad \theta_1 = \theta_2 = 180^o + 2\beta$$

$$L = \theta_1 \cdot r + \theta_2 \cdot R + 2 \cdot O_1O_2 \cdot \sigma\upsilon\nu\beta \ , \quad \theta_{rad} = \frac{2\pi}{360^o} \cdot \theta^o$$

$$F_{fr} = F_1 - F_2 \ , \quad F_1 = F_2 \cdot e^{\mu\theta} \ , \quad e = 2{,}718$$

$$P = F_{fr} \cdot U \ , \quad U = \omega \cdot R' \ , \quad \omega = \frac{2\pi}{60} \cdot n \ , \quad R' = r + \frac{h}{2}$$

$$\sum M = 0, \qquad \sum F_x = 0, \qquad \sum F_y = 0$$

$$\sigma = \frac{F}{A} \ , \quad \varepsilon = \frac{\Delta\ell}{\ell} \ , \quad \sigma = \varepsilon \cdot E \ , \quad \Delta\ell = \frac{F \cdot \ell}{A \cdot E}$$

$$\sigma_{\varepsilon\pi} = \frac{\sigma_{\theta\rho}}{\nu} \ , \quad \tau = \frac{F}{A} \ , \quad \tau_{\varepsilon\pi} = 0{,}85 \cdot \sigma_{\varepsilon\pi} \ , \quad \tau = \gamma \cdot G$$

$$I_{xx} = \frac{b \cdot h^3}{12} \ , \quad I_{xx} = I_{yy} = \frac{\pi \cdot D^4}{64}$$

$$I_{x'x'} = I_{xx} + A \cdot d^2$$

$$J = \frac{\pi \cdot D^4}{32} \ , \quad J = \frac{\pi}{32} \cdot \left(D^4 - d^4\right)$$

Το τυπολόγιο συνεχίζεται στην επόμενη σελίδα.

$$\frac{\sigma_{bmax}}{y_{max}} = \frac{M_{bmax}}{I_{XX}} = \frac{E}{R}$$

$$\frac{\tau}{r} = \frac{M_t}{J} = \frac{\theta \cdot G}{\ell}, \qquad \theta_{rad} = \frac{2\pi}{360^o} \cdot \theta^o, \qquad \omega = \frac{2\pi}{60} \cdot n$$

$$P = \rho \cdot g \cdot h, \quad m = \rho \cdot V, \quad w = \rho \cdot g, \quad \rho = \rho_{\sigma\chi} \cdot \rho_{\nu\varepsilon\rho o\acute{u}}$$

$$P = \frac{F}{A}, \quad P = \frac{F_1}{A_1} = \frac{F_2}{A_2}, \quad V_1 = V_2, \quad s_1 \cdot A_1 = s_2 \cdot A_2$$

$$W_1 = W_2, \quad s_1 \cdot F_1 = s_2 \cdot F_2$$

$$A_1 \cdot u_1 = A_2 \cdot u_2 = \Sigma\tau\alpha\theta\varepsilon\rho\acute{o}$$

$$P_1 + \rho \cdot g \cdot h_1 + \frac{1}{2} \cdot \rho \cdot u_1^2 = P_2 + \rho \cdot g \cdot h_2 + \frac{1}{2} \cdot \rho \cdot u_2^2 = \Sigma\tau\alpha\theta\varepsilon\rho\acute{o}$$

$$\frac{P_1}{\rho \cdot g} + h_1 + \frac{u_1^2}{2 \cdot g} = \frac{P_2}{\rho \cdot g} + h_2 + \frac{u_2^2}{2 \cdot g} = \Sigma\tau\alpha\theta\varepsilon\rho\acute{o}$$

$$Q = \frac{V}{t}, \quad Q = A \cdot u, \quad Q = A \cdot \frac{s}{t} \qquad Q = m \cdot c \cdot \Delta\theta$$

$$d_f = d - 2(m + c) = d - 2{,}5m$$

$$m = \frac{p}{\pi} = \frac{d}{z} = \frac{d_a}{z+2} \qquad p = m\pi = \frac{\pi d}{z} = \frac{\pi d_a}{z+2} \qquad z = \frac{d}{m} = \frac{\pi d}{p} = \frac{d_a - 2m}{m}$$

$$d = mz = \frac{pz}{\pi} = d_a - 2m \qquad d_a = d + 2m = m(z+2) \qquad c = 0{,}25 \cdot m$$

$$h = 2m + c = 2{,}25 \cdot m \qquad h_a = m \qquad s = \frac{p}{2} = \frac{m\pi}{2} = 1{,}5708m$$

$$a = \frac{d_1 + d_2}{2} = \frac{m(z_1 + z_2)}{2}$$

$$Q = A \cdot U \cdot \Delta T, \qquad U = \frac{1}{\frac{1}{\alpha_1} + \frac{\delta}{K} + \frac{1}{\alpha_2}}$$