

M/C DESIGN

- Length of open belt drive (O.B.D)

$$= 2C + \frac{\pi}{2}(D_1 + D_2) + \frac{(D_2 - D_1)^2}{4C}$$

- Length of cross belt driven (C.B.D)

$$= 2C + \frac{\pi}{2}(D_1 + D_2) + \frac{(D_2 + D_1)^2}{4C}$$

- Velocity ratio

$$V.R = \frac{N_2}{N_1} = \left(\frac{D_1 + t}{D_2 + t} \right) \left(1 - \frac{S}{100} \right)$$

- Ratio of belt tension

$$\frac{T_1}{T_2} = e^{\mu \theta}$$

- Maximum tensile strength of belt

$$T_{max} = b.t.\sigma_{per}$$

- Power transmission capacity of belt drive

$$P.T.C = (T_1 - T_2)v$$

- Centrifugal tension

$$T_c = \frac{T_{max}}{3}$$

- Initial tension

$$T_0 = \frac{T_1 + T_2 + 2T_c}{2}$$

- Number of 'V' belts

$$n = \frac{P_{total}}{P_{each}} \times K_q$$

- Buckingham dynamic load

$$F_d = F_t + \frac{20.67v[bc + F_t]}{20.67v + \sqrt{bc + F_t}} \quad c = \frac{a}{K \left(\frac{1}{E_1} + \frac{1}{E_2} \right)}$$

- Soderberg equation

$$\frac{1}{FOS} = \frac{\sigma_m}{\sigma_y} + \frac{K_f \sigma_v}{\sigma_s}$$

- Goodman equation

$$\frac{1}{FOS} = \frac{K_f \sigma_m}{\sigma_{ut}} + \frac{K_f \sigma_v}{\sigma_e}$$

- Notch sensitivity index

$$q = \frac{K_f - 1}{K_t - 1}$$

- Unwin's formula

$$d = 6\sqrt{t}$$

- Area of transverse fillet weld

$$A_{TFW} = h\ell_s \quad h = \frac{t}{\cos \theta + \sin \theta}$$

- Strength of T.F.W = $0.832t\ell_s\tau_{per}$

- Strength of parallel fillet weld

$$= 0.707t\ell_s\tau_{per}$$

- Strength of Butt weld = $h\ell(\sigma_t)_{per}$

- Frictional torque of thrust bearing by uniform pressure theory

$$(T_f)_{UPT} = \frac{2}{3}\mu\omega \left(\frac{R_o^3 - R_i^3}{R_o^2 - R_i^2} \right)$$

- Frictional torque of thrust bearing by uniform wear theory

$$(T_f)_{UWT} = \mu\omega \left(\frac{R_o + R_i}{2} \right)$$

- Power loss $P_{loss} = T_f.\omega$

- T_f equations for flat pivot bearing

$$(T_f)_{UPT} = \frac{2}{3}\mu WR$$

$$(T_f)_{UWT} = \frac{1}{2}\mu WR$$

- Bearing pressure

$$p_{ind} = \frac{W}{LD}$$

- Strength of bearing = $p_{per} \times L \times D$

- Bearing characteristic number = $\frac{zn}{p}$

- Mc-Kee's equation

$$\mu = \frac{33}{10^8} \left[\left(\frac{zn'}{p'} \right) \left(\frac{D}{C} \right) \right] + K$$

- Somer field No.

$$S = \left(\frac{zn}{p} \right) \left(\frac{D}{C} \right)^2$$

- Petroff's equation for μ

$$\mu = \frac{2\pi^2}{p} \left(\frac{zn}{p} \right) \left(\frac{D}{C} \right)$$

- Life of bearing

$$L_{50} = \left(\frac{C}{P_e} \right)^k \quad (\text{Million rev.})$$

K_q = service or overload factor.

Mechanical Engineering Design And Formulas For Manufacturing

**Wen Zhe Chen, Xi Peng Xu, Pin Qiang
Dai, Yong Lu Chen, Zheng Yi Jiang**



Mechanical Engineering Design And Formulas For Manufacturing:

Reviewing **Mechanical Engineering Design And Formulas For Manufacturing**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Mechanical Engineering Design And Formulas For Manufacturing**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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