

## 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

$$\frac{1}{FOS} = \frac{K_1 \sigma_m}{\sigma_{ut}} + \frac{K_f \sigma_v}{\sigma_e}$$

- Notch sensitivity index

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

- Unwin's formula

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

- Area of transverse fillet weld

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

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

- Strength of parallel fillet weld

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

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

- 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

$$(T_f)_{UPT} = \frac{2}{3} \mu WR \quad (T_f)_{UWT} = \frac{1}{2} \mu WR$$

- 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

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

- Somer field No.

$$S = \left( \frac{zn}{p} \right) \left( \frac{D}{C} \right)^2 \quad \tau \text{ p/s}$$

- Petroff's equation for  $\mu$

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

- Life of bearing

$$L_{50} = \left( \frac{C}{P_e} \right)^3 \quad (\text{Million rev.})$$

$K_q$  = service or overload factor.

# Mechanical Engineering All Formulas Machine Design

**Katrin Zwirgmaier**



## **Mechanical Engineering All Formulas Machine Design:**

## The Enigmatic Realm of **Mechanical Engineering All Formulas Machine Design**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Mechanical Engineering All Formulas Machine Design** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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