# M/C DESIGN

Length	of	open	belt	drive	(O.B.D
= 2C + E	(1)	+D. V	(D <sub>R</sub>	$-D_1)^2$	

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

Maximum tensile strength of belt  $T_{max} = b.t.\sigma_{per}$ 

Power transmission capacity of belt drive  $(P.T.C = (T_i - T_e)v$ 

Centrifugal tension  $T_s = \frac{T_{max}}{T_s}$ 

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

Number of 'V' belts n = Ptotal X Kq

Buckingham dynamic load

$$F_d = F_t + \frac{20.67 \text{v} \left[ \text{bc} + F_t \right]}{20.67 \text{v} + \sqrt{\text{bc} + F_t}} \quad \begin{bmatrix} c = \frac{6}{E_1} \\ \frac{1}{E_1} + \frac{1}{E_2} \end{bmatrix}$$

Soderberg equation

rg equation 
$$\frac{1}{\text{FOS}} = \frac{\sigma_{\text{in}}}{\sigma_{\text{yt}}} + \frac{\kappa_f \sigma_{\text{v}}}{\sigma_{\text{e}}}$$

 $K_t\sigma_m + K_f\sigma_v$ Goodman equation

Notch sensitivity index  $q = \frac{K_f - 1}{K_f - 1}$ 

Unwin's formula d = 6/t

Area of transverse fillet weld

$$A_{T,F,W} = h\ell_s$$
,  $h = \frac{t}{\cos\theta + \sin\theta}$ 

Strength of T.F.W = 0.832t f. T.

Strength of parallel fillet weld = 0.707t f tper

Strength of Butt weld = hf(o,)

Frictional torque of thrust bearing by uniform pressure theory

$$(T_f)_{UPT} = \frac{2}{3}\mu\omega \left(\frac{R_0^3 - R_i^3}{R_0^2 - R_i^2}\right)$$

Frictional torque of thrust bearing by uniform wear theory

$$(T_f)_{UWT} = \mu \omega \left( \frac{R_0 + R_1}{2} \right)$$

Power less Poss = Tr. ou

T, equations for flat pivot bearing

$$\left(T_f\right)_{\mathrm{UPT}} = \frac{2}{3}\mu \mathbf{M}\mathbf{R}$$
  $\left(T_f\right)_{\mathrm{UWT}} = \frac{1}{2}\mu \mathbf{M}\mathbf{R}$   
Bearing pressure  $p_{\mathrm{tot}} = \frac{\mathbf{W}}{\mathbf{L}\mathbf{D}}$ 

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

Bearing characteristic number =  $\frac{zn}{r}$ 

Mc-Kee's equation

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

Somer field No. S = 2n

Petroff's equation for  $\mu \mu = \frac{2\pi^2}{2\pi^2}$ 

Life of bearing  $L = \frac{C}{P_c}$ (Million rev.)

# **Mechanical Engineering Design And Formulas For Manufacturing**

**University of Michigan--Dearborn** 

#### **Mechanical Engineering Design And Formulas For Manufacturing:**

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