

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

$$\frac{T_1}{T_2} = e^{k\theta}$$
- Maximum tensile strength of belt

$$T_{max} = b \cdot t \cdot \sigma_{per}$$
- 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

$$F_d = F_t + \frac{20.67v \left[bc + F_t \right]}{20.67v + \sqrt{bc + F_t}}$$

$$c = \frac{1}{K} \left[\frac{1}{E_1} + \frac{1}{E_2} \right]$$
- Soderberg equation

$$\frac{1}{POS} = \frac{\sigma_m}{\sigma_{av}} + \frac{K_f \sigma_s}{\sigma_s}$$
- Goodman equation

$$\frac{1}{POS} = \frac{K_f \sigma_m}{\sigma_{av}} + \frac{K_t \sigma_s}{\sigma_s}$$
- Notch sensitivity index

$$q = \frac{K_f - 1}{K_t - 1}$$
- Unwin's formula

$$d = 0.4\sqrt{t}$$

K_Q = Service or overload factor.

- Area of transverse fillet weld

$$A_{TFW} = h\ell_s, h = \frac{t}{\cos\theta + \sin\theta}$$
- 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 = $h/(c_1)_{per}$
- Frictional torque of thrust bearing by uniform pressure theory

$$(T_f)_{UPT} = \frac{2}{3}\mu\omega \left[\frac{R_0^2 - R_1^2}{R_0^2 + R_1^2} \right]$$
- Frictional torque of thrust bearing by uniform wear theory

$$(T_f)_{UWT} = \mu\omega \left[\frac{R_0 + R_1}{2} \right]$$
- Power loss $P_{loss} = T_f \cdot \omega$
- T_f equations for flat pivot bearing

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

$$(T_f)_{UWT} = \frac{1}{2}\mu\omega R$$
- Bearing pressure $P_{avg} = \frac{W}{L \cdot D}$
- Strength of bearing = $P_{per} \times L \times D$
- Bearing characteristic number = $\frac{zn}{p}$
- Mc-Kee's equation

$$\mu = \frac{33}{10^5} \left[\left(\frac{zn}{p} \right) \left(\frac{D}{C} \right) \right] + K$$
- Somer field No.

$$S = \left(\frac{zn}{p} \right) \left(\frac{D}{C} \right)^2$$
- Petroff's equation for $\mu\mu = \frac{2\pi^2}{3} \left(\frac{zn}{p} \right) \left(\frac{D}{C} \right)$
- Life of bearing

$$L = \left(\frac{C}{P_e} \right)^k$$
 (Million rev.)

Mechanical Engineering Formulas Cheat Sheet

International correspondence schools

Mechanical Engineering Formulas Cheat Sheet:

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Prospectuses, courses of instruction, &c. International

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Mechanical Engineering, 1926 History of the American society of mechanical engineers Preliminary report of the committee on Society history issued from time to time beginning with v 30 Feb 1908

Concept-Based Language Instruction and Genre-Based Second Language Writing Pedagogy J. Elliott Casal, Lindsey M. Kurtz, Xixin Qiu, 2025-10-29 Genre Based approaches to Second Language Writing Instruction have become a powerful and popular means of assisting second and multilingual writers in learning to engage in professional pedagogical and academic genres that are often high stakes. This book presents a framework for teaching second language and multilingual writing that integrates Concept Based Language Instruction and Genre Based Writing Pedagogy. The authors present three large scale implementations within a graduate legal writing context, a cross disciplinary doctoral research writing context and a graduate mechanical engineering context and demonstrate how the pedagogical and theoretical framework is interdisciplinary, flexible and comprehensive. It provides a means of theorizing, researching, teaching and assessing the development of second language writer genre knowledge from nascent through expertise and equips second language writing instructors with a theoretical and practical toolkit to empower student writers to be more agentive, aware and strategic in their writing.

Mechanical Engineering Formulas Pocket Guide Tyler G. Hicks, 2003-02-19

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