

## 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  

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

$$\frac{1}{POS} = \frac{K_f \sigma_m}{\sigma_{ut}} + \frac{K_t \sigma_s}{\sigma_s}$$
- 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  $P_{load} = \frac{W}{L \cdot D}$
- 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  $\mu\mu = \frac{2\pi^2}{(zn)} \left( \frac{D}{p} \right) \left( \frac{C}{D} \right)$
- Life of bearing  

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

# Mechanical Engineering Formulas Cheat Sheet

**Navy Feroz**

## **Mechanical Engineering Formulas Cheat Sheet:**

**The Academic Discourse of Mechanical Engineering** Thi Ngoc Phuong Le, Minh Man Pham, Michael Barlow, 2023-03-15 This volume examines rhetorical conventions employed in mechanical engineering research to understand the knowledge making principles of the discipline as well as their expression within the research article. In particular the study analyses the organisational patterns of mechanical engineering research articles using Swales's conceptualisation of moves and steps. In addition the research identifies the phraseology associated with specific moves and steps. The study draws on a corpus of 120 mechanical engineering research articles equally distributed across two sub disciplines mechanical systems and thermal fluids engineering three research traditions experimental, theoretical and mixed methods and two publication periods 2002-2006 and 2012-2016. It adopts an integrated methodology intertwining various approaches and perspectives including corpus linguistics move analysis, discourse analysis and interviews to address two main strands of research enquiry i) What are the properties of the rhetorical structures in terms of range, frequency and length for each section of mechanical engineering research articles? ii) What effect does sub discipline, research tradition and publication date have on the rhetorical structure of research articles?

**Prospectuses, courses of instruction, &c.** International

correspondence schools, 1901 **The Engineering Student Survival Guide** Krista Donaldson, 2002 What this book is about is how to learn as much as you can get good grades and still have fun while pursuing an engineering degree. You will find strategies to ace tests, learn to love your computer in times of cybercrisis, land most agreeable internships and pull through end of the quarter slams in ways that are specific to engineers.

**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 THOUSANDS OF MECHANICAL ENGINEERING FORMULAS IN YOUR POCKET AND AT YOUR FINGERTIPS This portable

find it now reference contains thousands of indispensable formulas mechanical engineers need for day to day practice It s all here in one compact resource everything from HVAC to stress and vibration equations measuring fatigue bearings gear design simple mechanics and more Compiled by a professional engineer with many years experience the Pocket Guide includes common conversions symbols and vital calculations data You ll find just what you need to solve your problems quickly easily and accurately **Popular Mechanics** ,1944-06 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle

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