

## 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

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

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

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

- Life of bearing  $L_{50} = \left( \frac{C}{P_e} \right)^3$  (Million rev.)

$K_q$  = service or overload factor.

# Mechanical Engineering Design And Formulas For Manufacturing

**Ansel C. Ugural**



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

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### **Table of Contents Mechanical Engineering Design And Formulas For Manufacturing**

1. Understanding the eBook Mechanical Engineering Design And Formulas For Manufacturing
  - The Rise of Digital Reading Mechanical Engineering Design And Formulas For Manufacturing
  - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Engineering Design And Formulas For Manufacturing
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mechanical Engineering Design And Formulas For Manufacturing
  - User-Friendly Interface

4. Exploring eBook Recommendations from Mechanical Engineering Design And Formulas For Manufacturing
  - Personalized Recommendations
  - Mechanical Engineering Design And Formulas For Manufacturing User Reviews and Ratings
  - Mechanical Engineering Design And Formulas For Manufacturing and Bestseller Lists
5. Accessing Mechanical Engineering Design And Formulas For Manufacturing Free and Paid eBooks
  - Mechanical Engineering Design And Formulas For Manufacturing Public Domain eBooks
  - Mechanical Engineering Design And Formulas For Manufacturing eBook Subscription Services
  - Mechanical Engineering Design And Formulas For Manufacturing Budget-Friendly Options
6. Navigating Mechanical Engineering Design And Formulas For Manufacturing eBook Formats
  - ePub, PDF, MOBI, and More
  - Mechanical Engineering Design And Formulas For Manufacturing Compatibility with Devices
  - Mechanical Engineering Design And Formulas For Manufacturing Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mechanical Engineering Design And Formulas For Manufacturing
  - Highlighting and Note-Taking Mechanical Engineering Design And Formulas For Manufacturing
  - Interactive Elements Mechanical Engineering Design And Formulas For Manufacturing
8. Staying Engaged with Mechanical Engineering Design And Formulas For Manufacturing
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mechanical Engineering Design And Formulas For Manufacturing
9. Balancing eBooks and Physical Books Mechanical Engineering Design And Formulas For Manufacturing
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mechanical Engineering Design And Formulas For Manufacturing
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Mechanical Engineering Design And Formulas For Manufacturing
  - Setting Reading Goals Mechanical Engineering Design And Formulas For Manufacturing
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Mechanical Engineering Design And Formulas For Manufacturing
  - Fact-Checking eBook Content of Mechanical Engineering Design And Formulas For Manufacturing
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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