

**QUESTION 1 [25 MARKS]**

A countershaft carrying two V-belt pulleys is shown in **Figure 1**. Pulley *A* receives power from a motor through a belt with the belt tensions shown. The power is transmitted through the shaft and delivered to the belt on pulley *B*. Assume the belt tension on the loose side at *B* is 15% of the tension on the right side. The shaft rotates at 1200 rpm. The desired ball bearing life is 15000 hours, an application factor of 1.2 and 99% reliability.

- (a) Determine the tensions in the belt on pulley *B*, assuming the shaft is running at a constant speed.  $T_1 = 2880 \text{ N}$ ,  $T_2 = 432 \text{ N}$  [5 Marks]
- (b) Find the magnitudes of the bearing reaction forces, assuming the bearings act as a simple support.  $R_c = 1794 \text{ N}$ ,  $R_o = -3036 \text{ N}$  [5 Marks]
- (c) Find the suitable 02-series ball bearing for point *O* and point *C*. [15 Marks]

Point *O*: 02-75 mm deep groove ball bearing with  $C_{10} = 66.3 \text{ kN}$   
 Point *C*: 02-55 mm deep groove ball bearing with  $C_{10} = 43.6 \text{ kN}$

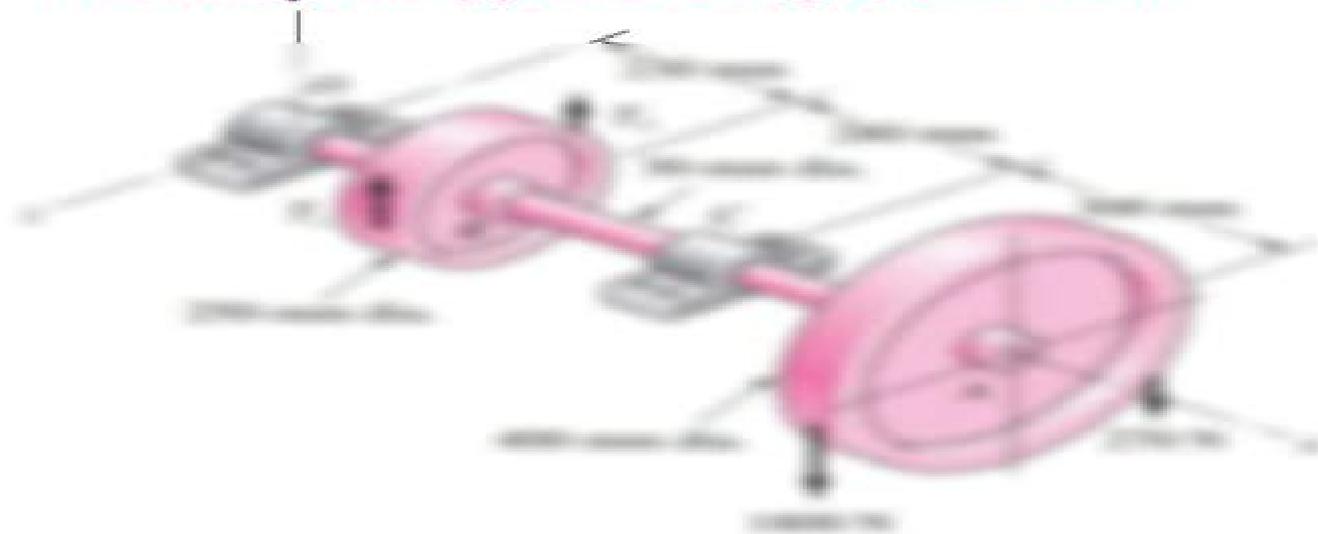


Figure 1: Countershaft with two V-belt pulleys

# Electrical Machine Design Questions Answer

**Yan Bai**



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## **Table of Contents Electrical Machine Design Questions Answer**

1. Understanding the eBook Electrical Machine Design Questions Answer
  - The Rise of Digital Reading Electrical Machine Design Questions Answer
  - Advantages of eBooks Over Traditional Books
2. Identifying Electrical Machine Design Questions Answer
  - 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 Electrical Machine Design Questions Answer
  - User-Friendly Interface
4. Exploring eBook Recommendations from Electrical Machine Design Questions Answer
  - Personalized Recommendations

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

- 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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