

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 $C_{10} = 43.6 \text{ kN}$

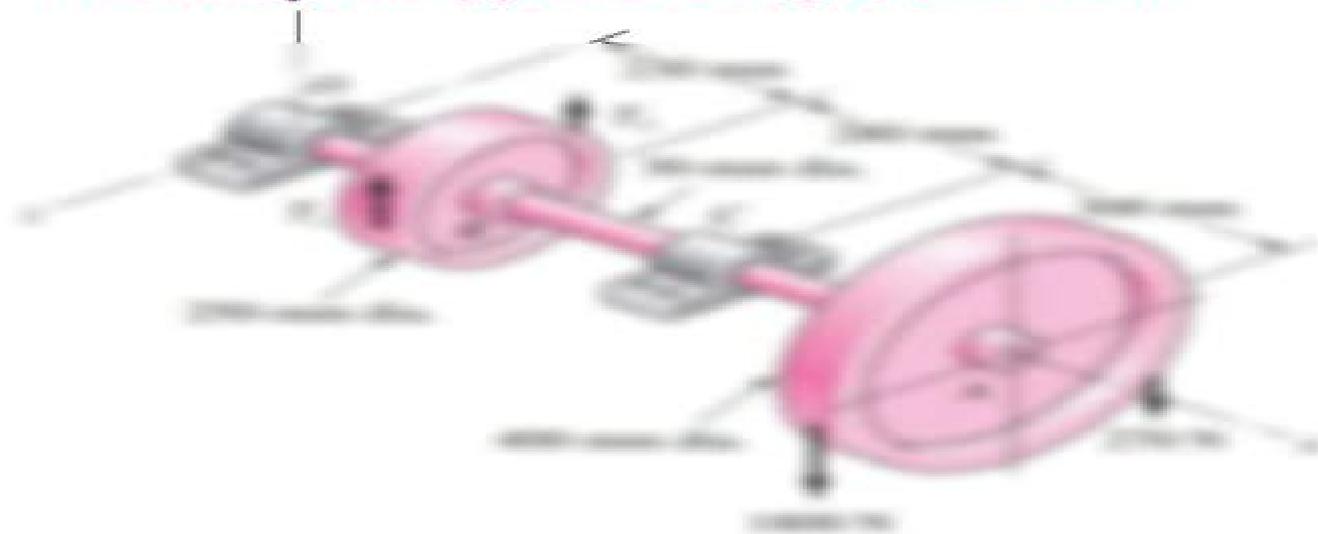


Figure 1: Countershaft with two V-belt pulleys

Electrical Machine Design Questions Answer

Arturo Cuomo



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In a digitally-driven world wherever monitors reign great and quick interaction drowns out the subtleties of language, the profound strategies and mental subtleties concealed within words frequently move unheard. Yet, located within the pages of **Electrical Machine Design Questions Answer** a charming literary treasure pulsing with raw feelings, lies an extraordinary journey waiting to be undertaken. Penned by a talented wordsmith, this marvelous opus attracts visitors on an introspective trip, delicately unraveling the veiled truths and profound affect resonating within ab muscles fabric of each word. Within the mental depths of the moving evaluation, we shall embark upon a sincere exploration of the book is core styles, dissect their captivating publishing type, and fail to the strong resonance it evokes heavy within the recesses of readers hearts.

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