

- 3 Two pulleys are connected by a v-belt as shown in Figure 4. The belt has a mass of 0.2 kg/m and a cross-sectional area of 320 mm². The maximum tension is 400 N and the Young's modulus of the belt material is 300 MN/m². The coefficient of friction between belt and pulley is 0.2 and the groove angle is 38°. The distance between the centres of two pulleys is 1 m. The driving pulley has a diameter of 0.1 m and rotates at 3750 rev/min. The driven pulley has a diameter of 0.1 m.

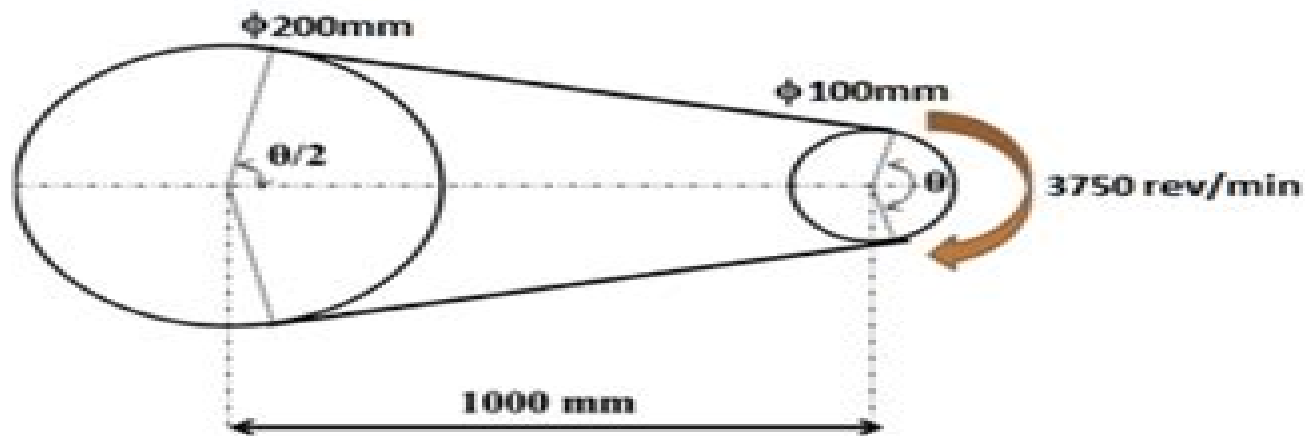


Figure 4

Given:

$$T_0 = (T_1 + T_2) / 2$$

Determine,

- | | |
|--|-----------|
| a) the lap angle on the driving pulley, θ ; | (4 Marks) |
| b) the belt velocity on the tight side; | (2 Marks) |
| c) the belt tension due to centrifugal force; | (2 Marks) |
| d) the belt tension on the slack side; | (4 Marks) |
| e) the belt velocity on the slack side; | (3 Marks) |
| f) the rotational speed of the driven pulley; and | (2 Marks) |
| g) the power transmitted on the driven pulley. | (3 Marks) |

V Belt Velocity Guidelines

William J. Slattery



V Belt Velocity Guidelines:

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In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**V Belt Velocity Guidelines**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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