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For ? = 90º Coefficient of friction between belt and pulley,? = [Log e T1/T2] / ? = 0.66/ 90º = 0.0073 For ? = 120º Coefficient of friction between belt and pulley,? = [Log e T1/T2] / ? = 0.73/ 120º = 0.0061 For ? = 150º Coefficient of friction between belt and pulley,? = [Log e T1/T2] / ? =0.81/ 150º = 0.0054 For ? = 180º Coefficient of friction between belt and pulley,? = [Log e T1/T2] / ? =0.95/ 180º = 0.0053

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From this experiment, Coefficient of friction for flat belt = 0.400. ii) Coefficient of friction for V shape belt = 0.185. This experiment showed that the coefficient of friction is influenced by the angle of contact between the belt with the pulley.

Belt Friction Test Objective Engineering Essay

The equipment of belt friction experiment consist of pulley, a set of loads with different weight, a flat belt,nylon rope, and weight hanger. All this equipment is a part of a range designed to demonstrate and experimentally confirmed some basic engineering science principle, The equipment was set up then the pulley was locked at different stud angle, such as 30 0 ,35 0 ,40 0 and others.

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Experiment: Determine belt friction using belt friction apparatus. Objective: The object of the experiments is to test flat belt with varying angles of lap around a pulley. Then the empirical data may be compared with the theoretically derived solutions and the coefficients of friction evaluated for all the belts types.

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Let T 1 = Tension in the belt on the tight side. T 2 = Tension in the belt on the slack side. ? = Angle of contact, i.e., the angle subtended by the arc EF at the centre of the driven pulley. μ = Co-efficient of friction between the belt and pulley. * This means that T 1 = T 2 = T = constant where T 1 and T 2 are tensions on both sides of the belt.

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