

Summary

Friction is a force that opposes motion in all contacting surfaces. This slide shows two possible ways to reduce opposing or opposing existing problems that friction could create: lubrication and sliding bearings. Friction lubrication is the easiest, cheapest, most popular, but not self-lubricating. Lubricating bearings is also popular, expensive, but involving no wear.

5. Calculating Friction

In the illustration above, a force P is applied to an object. Friction is opposing

motion $P < \mu_s F_N$. Static Friction

Here the friction force is F_f , coefficient μ_s is opposing the velocity surface.

Equation:

There is also equation for sliding friction:

Equation:

$$\text{Friction force } F_f = \mu_s F_N \quad \text{Coefficient of friction } \mu_s \quad \text{Normal force } F_N$$

In this equation:

μ_s is the coefficient of friction

F_N is the normal force

F_f is the friction force (force opposing motion)

Example: A block is on a table with a weight of 100 N. The coefficient of friction is 0.2. What is the friction force opposing motion the block sliding?

$$\begin{aligned} F_f &= \mu_s F_N \\ F_f &= 0.2 \times 100 \text{ N} \\ F_f &= 20 \text{ N} \end{aligned}$$

In addition, the F_f must be greater than 100 N.

6. Sliding Friction

Sliding friction is a force that opposes motion in all contacting surfaces. This slide shows two possible ways to reduce opposing or opposing existing problems that friction could create: lubrication and sliding bearings. Friction lubrication is the easiest, cheapest, most popular, but not self-lubricating. Lubricating bearings is also popular, expensive, but involving no wear.

1. A force P is applied to an object. Friction is opposing motion $P < \mu_s F_N$. Static Friction. The coefficient of friction is 0.2. What is the friction force opposing motion the block sliding?

Skill Sheet 6 2 Static Friction Key

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Wooldridge-King**



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