

Static Friction



Measuring the Coefficient of Static Friction

Purpose: Compares the coefficient of static friction μ_s for several surface-surface interactions.

By carefully increasing the angle of the inclined plane until the block begins to move, you can measure $\mu_s = \tan(\theta_{\max})$.

The plane has three surfaces: glass, sandpaper (100 grit), and sanded plywood. Three blocks with wood, glass, and 100- and 220-grit sandpaper sides provide a number of surface-to-surface combinations.

Note:

Extra Equipment: None

Location: Shelf A3