

Note Taking Guide - Episode 503

Friction:

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Types of Friction:

- 1.

- 2.

_____ friction is greater than _____ friction.

Force diagrams: Container is given a -

small push to left and does not move:

•

harder push to left and does not move:

•

even harder to left and starts to move:

•

push to keep moving it uniformly to right:

•

normal force:

-

-

Draw all forces on the box as
it slides uniformly to right:



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Factors Affecting Friction:

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Coefficient of Friction $\mu = \frac{F_f}{F_N}$

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Example Problem: A 260 N crate initially at rest on the floor requires an applied F of slightly more than 79 N to start it moving. Draw a free-body diagram showing all forces acting on the crate. Find μ between the crate and floor.

Problem Set #2 (1-2)

Show What You Know (1-5)