

Name: _____

Physics Chapter 4 Study Guide

Useful Information:

$$F = ma \quad \mu = \frac{F_{\text{friction}}}{F_{\text{normal}}} = \frac{F_{\text{friction}}}{mg} = \left(\frac{F_{\text{friction}}}{mg} \right) \quad \text{or } \mu = \frac{F_{\text{friction}}}{F_{\text{normal}}} \quad \mu_s^2 + \mu_k^2 = 1 \quad \mu_s^2 + \mu_k^2 = 1$$

A. Basic Understanding:

- Chapter 4 End-of-Chapter Class Problems
- Chapter 4 Review Problems: 6, 11, 12, 13, 19, 21, 29, 36, 43, 51
- Chapter 4 End-of-Chapter Part 1
- Solving Systems involves A - D.

Pushing on the Wall:

- Chapter 4 Your Try Problems
- Chapter 4 End-of-Chapter Class Problems
- Chapter 4 Review Problems: 1, 2, 3, 4, 8, 10, 16, 20, 23, 24, 25, 27, 31, 32, 39, 39, 40, 41, 42, 47, 48, 49, 52
- End-of-Chapter Test Prep 4-4
- Chapter 4 End-of-Chapter Part 2
- Solving Systems involves A - D (know exactly, accurately and completely)

Slipping Chaper:

- Problems 43. Now assume that $\mu = 0.2$. What are the min and max F 's if you push on a wall as diagramed that will keep the block stationary?
- Chapter 4 Review Problems: 14, 22, 38, 39
- Conceptual answer for Solving Systems involves F.
- End-of-Chapter Inquiry

Static vs. Equations:

$F = ma$ Force measured in Newtons equals mass (measured in kilograms) times acceleration (measured in meters per second squared). The coefficient of friction has units

$\mu = \frac{F_{\text{friction}}}{F_{\text{normal}}}$ The coefficient of friction has units is equal to the force due to friction

measured in Newtons divided by the normal force (the force perpendicular to a contact surface between two objects, also measured in Newtons). The coefficient of friction is an extremely difficult number to pin down. It depends on what two objects are in contact with each other, as well as other factors such as whether they are clean and dry or wet, oily, etc.

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JR Anderson



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