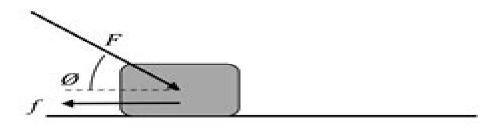
# Question:



A block of mass m is pushed across a rough surface by an applied force F, directed at an angle O relative to the horizontal as shown above. The block experiences a friction force f in the opposite direction. What is the coefficient of friction between the block and the surface?

a. 
$$\frac{mg}{F\sin\phi}$$

b. 
$$\frac{f}{F\sin\phi + mg}$$

c. 
$$\frac{f}{mg}$$

d. 
$$\frac{mg}{f}$$

e. 
$$\frac{f}{F \sin \phi - mg}$$

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#### Answer:

The correct answer is b. The key to finding the coefficient of friction  $\mu$  is in calculating the correct Normal force acting on the block.

$$\sum F_y = ma$$

$$-F_{spplled-y} - F_g + F_{Normal} = 0$$

$$F_{Normal} = F \sin \phi + mg$$

$$\mu = \frac{F_{friction}}{F_{Normal}} = \frac{f}{F \sin \phi + mg}$$

# **Problems In Physics Mechanics**

S. P. Strelkov

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