

Answer on Question 57864, Physics, Mechanics, Relativity

Question:

A 60.0 kg crate rests on a level floor at a shipping dock. The coefficients of static and kinetic friction are 0.760 and 0.410 , respectively. What horizontal pushing force is required to

- a) just start the crate moving and
- b) slide the crate across the dock at a constant speed?

Solution:

- a) By the definition of the coefficient of static friction we have:

$$\mu_s = \frac{F_{\text{appl}}}{W} = \frac{F_s}{N},$$

here, F_{appl} is the horizontal pushing force, $W = mg$ is the weight of the crate directed downward, F_s is the static friction force directed opposite to the horizontal pushing force and equal to it, N is the force of reaction directed upward and equal to the weight of the crate.

From this formula we can find the horizontal pushing force required to just start the crate moving:

$$F_{\text{appl}} = F_s = \mu_s N = \mu_s mg = 0.760 \cdot 60\text{ kg} \cdot 9.8 \frac{\text{m}}{\text{s}^2} = 447\text{ N}.$$

- b) By the definition of the coefficient of kinetic friction we have:

$$\mu_k = \frac{F_{\text{appl}}}{W} = \frac{F_k}{N},$$

here, F_{appl} is the horizontal pushing force, $W = mg$ is the weight of the crate directed downward, F_k is the kinetic friction force directed opposite to the horizontal pushing force and equal to it, N is the force of reaction directed upward and equal to the weight of the crate.

From this formula we can find the horizontal pushing force required to slide the crate across the dock at a constant speed:

Questions On Relativity With Answers

Jessica J Manson



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In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Questions On Relativity With Answers**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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