

**Problems**

1. A force of 1.2 N [ $\leftarrow$ ] is applied to an object of mass 1.5 kg. It accelerates at 0.50 m/s<sup>2</sup> [ $\leftarrow$ ] along a surface. Determine the force of friction that is acting and the coefficient of kinetic friction involved.



From x dir:

$$\begin{aligned} F_{app} - F_f &= ma \\ F_f &= F_{app} - ma \\ F_f &= 1.2\text{ N} - (1.5\text{ kg})(0.50\text{ m/s}^2) \\ F_f &= 0.45\text{ N} \\ F_f &= 0.45\text{ N } [\rightarrow] \end{aligned}$$

From y dir:

$$\begin{aligned} F_N - F_g &= 0 \\ F_N &= F_g \\ F_f &= \mu F_N \\ \mu &= \frac{F_f}{F_N} \\ \mu &= \frac{0.45\text{ N}}{(1.5\text{ kg})(9.8\text{ m/s}^2)} \\ \mu &= 0.03 \end{aligned}$$

2. Two children pull a toy truck of mass 2.4 kg along a rough horizontal surface. One child pulls with a force of 8.4 N [N] and the other pulls with a force of 3.6 N [S]. The coefficient of friction between the toy and surface is 0.18. What is the acceleration of the toy?



$$\begin{aligned} \Sigma F_y &= F_N - F_g = 0 \\ F_N - F_g &= 0 \\ F_N &= F_g \end{aligned}$$

$$\begin{aligned} \Sigma F_x &= F_1 - F_2 - F_f = ma \\ a &= \frac{F_1 - F_2 - \mu mg}{m} \\ a &= \frac{8.4\text{ N} - 3.6\text{ N} - (0.18)(2.4\text{ kg})(9.8\text{ m/s}^2)}{2.4\text{ kg}} \\ a &= 0.236\text{ m/s}^2 \\ a &= 0.24\text{ m/s}^2 \text{ [N]} \end{aligned}$$

3. What minimum magnitude of force would be required to start a 1.0-kg object sliding along a horizontal surface if the coefficient of static friction is 0.20?



$$\begin{aligned} \Sigma F_y &= F_N - F_g = 0 \\ F_N - F_g &= 0 \\ F_N &= F_g \end{aligned}$$

$$\begin{aligned} \Sigma F_x &= F_{app} - F_f = ma \\ F_{app} - F_f &= 0 \\ F_{app} &= \mu mg \\ F_{app} &= (0.20)(1.0\text{ kg})(9.8\text{ m/s}^2) \\ F_{app} &= 1.96\text{ N} \\ F_{app} &> 2.0\text{ N} \end{aligned}$$

4. Show that an applied force of 4.0 N is insufficient to get a stationary 2.0-kg object to move horizontally if the coefficient of starting friction is 0.25.



$$\begin{aligned} \Sigma F_y &= F_N - F_g = 0 \\ F_N - F_g &= 0 \\ F_N &= F_g \end{aligned}$$

$$\begin{aligned} \Sigma F_x &= F_{app} - F_f = ma \\ F_{app} - F_f &> 0? \\ F_{app} - \mu mg &> 0? \\ 4.0\text{ N} - (0.25)(2.0\text{ kg})(9.8\text{ m/s}^2) &> 0? \\ -0.9\text{ N} &> 0? \end{aligned}$$

Since the applied force is not large than the force of static friction, their sum is less than 0 N and therefore insufficient to get the object moving.

# Dynamics Problems And Solutions

**Yijin Wang**



## **Dynamics Problems And Solutions :**

## Decoding **Dynamics Problems And Solutions** : Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Dynamics Problems And Solutions** ," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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