

**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 Pdf

**Ilie Dumitru**



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Selected peer reviewed papers from the International Congress Science and Management of Automotive and Transportation Engineering SMAT 2014 October 23 25 2014 Craiova Romania     **Dynamics for Engineers** Bichara B. Muvdi,Amir W. Al-Khafaji,J.W. McNabb,2012-12-06 Mechanics is one of the branches of physics in which the number of principles is at once very few and very rich in useful consequences On the other hand there are few sciences which have required so much thought the conquest of a few axioms has taken more than 2000 years Rene Dugas A History of Mechanics Introductory courses in engineering mechanics statics and dynamics are generally found very early in engineering curricula As such they should provide the student with a thorough background in the basic fundamentals that form the foundation for subsequent work in engineering analysis and design Consequently our primary goal in writing *Statics for Engineers and Dynamics for Engineers* has been to develop the fundamental principles of engineering mechanics in a manner that the student can readily comprehend With this comprehension the student thus acquires the tools that would enable him/her to think through the solution of many types of engineering problems using logic and sound judgment based upon fundamental principles Approach We have made every effort to present the material in a concise but clear manner Each subject is presented in one or more sections followed by one or more examples the solutions for which are presented in a detailed fashion with frequent reference to the basic underlying principles A set of problems is provided for use in homework assignments     *Proceedings of the Engineering Foundation Conference on Improved Hydrologic Forecasting, Why and How, Asilomar Conference Grounds, Pacific Grove, California, March 25-30, 1979* ,1980     *Cornell University Courses of Study* Cornell University,2000  
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