

Dynamics (ME20001)
Tutorial 3

1

The 10-Mg truck hauls the 20-Mg trailer. If the unit starts from rest on a level road with a tractive force of 20 kN between the driving wheels of the truck and the road, compute the tension T in the horizontal drawbar and the acceleration a of the rig.

Ans. $T = 13.33 \text{ kN}$, $a = 0.667 \text{ m/s}^2$



2

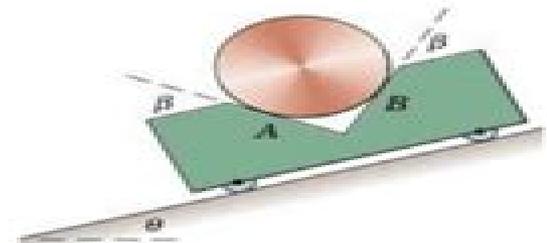
The 50-kg crate is stationary when the force P is applied. Determine the resulting acceleration of the crate if (a) $P = 0$, (b) $P = 150 \text{ N}$, and (c) $P = 300 \text{ N}$.



3

A cylinder of mass m rests in a supporting carriage as shown. If $\beta = 45^\circ$ and $\theta = 30^\circ$, calculate the maximum acceleration a which the carriage may be given up the incline so that the cylinder does not lose contact at B .

Ans. $a = 0.366g$



4

The system is released from rest with the cable taut. For the friction coefficients $\mu_s = 0.25$ and $\mu_k = 0.20$, calculate the acceleration of each body and the tension T in the cable. Neglect the small mass and friction of the pulleys.

Ans. $a_A = 1.450 \text{ m/s}^2$ down incline
 $a_B = 0.725 \text{ m/s}^2$ up
 $T = 105.4 \text{ N}$



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