

A 25.0-kg box is sitting on a plane floor in a warehouse. The coefficients of static and kinetic friction are 0.548 and 0.321 respectively. What is the horizontal force required to (a) just get the box moving and (b) slide the box across the warehouse with constant velocity?

There is a 32.0 kg brick that is initially at rest. Looking down on the brick, two forces, are applied to the , it begins to move. The coefficient of kinetic friction between the brick and the ground is has a force of 91.0 N at relative to the x-axis and has a magnitude of 50.0 N in the same direction as the x-axis. The coefficient of kinetic friction between the crate and the floor is Determine the magnitude and direction (relative to the x-axis) of the acceleration of the brick.