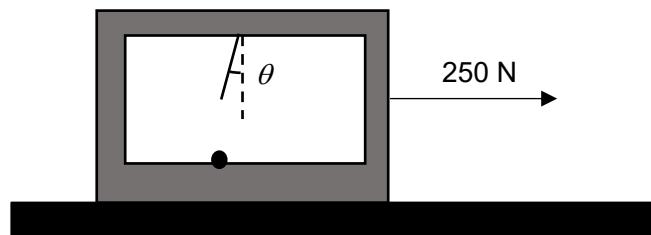


6

A block with a pendulum bob hanging lies on a rough horizontal surface. The total mass of the block and the pendulum bob is 100 kg. A force of 250 N is applied to the block and the pendulum bob makes an angle θ to the vertical axis.



What is the magnitude of θ if a constant frictional force of 60 N is acting on the block?

A

11°

B

14°

C

76°

D

79°

