

4.

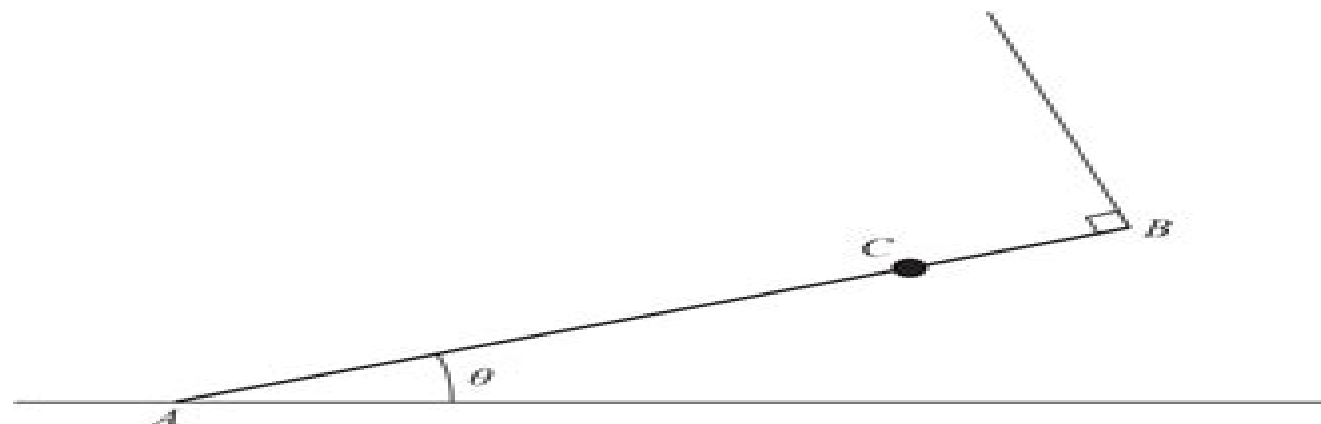


Figure 2

A uniform rod  $AB$  has mass  $M$  and length  $2a$

A particle of mass  $2M$  is attached to the rod at the point  $C$ , where  $AC = 1.5a$

The rod rests with its end  $A$  on rough horizontal ground.

The rod is held in equilibrium at an angle  $\theta$  to the ground by a light string that is attached to the end  $B$  of the rod.

The string is perpendicular to the rod, as shown in Figure 2.

(a) Explain why the frictional force acting on the rod at  $A$  acts horizontally to the right on the diagram.

(1)

The tension in the string is  $T$

(b) Show that  $T = 2Mg \cos \theta$

(3)

Given that  $\cos \theta = \frac{3}{5}$

(c) show that the magnitude of the vertical force exerted by the ground on the rod at  $A$  is  $\frac{57Mg}{25}$

(3)

The coefficient of friction between the rod and the ground is  $\mu$

Given that the rod is in limiting equilibrium,

(d) show that  $\mu = \frac{8}{19}$

(4)

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**John Hebborn, Jean Littlewood**



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