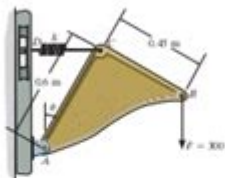


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5-39. Spring CD remains in the horizontal position at all times due to the roller at D . If the spring is unstretched when $\theta = 0^\circ$ and the stiffness is $k = 1.5 \text{ kN/m}$, determine the smallest angle θ for equilibrium and the horizontal and vertical components of reaction at pin A .



Spring Force Formula: At the equilibrium position, the spring elongates $x = 0.6 \sin \theta$. Using the spring force formula, the force in spring CD is found to be $F_{sp} = kx = 1500(0.6 \sin \theta) = 900 \sin \theta$.

Equations of Equilibrium: From the free-body diagram of the bracket, Fig. a , the equilibrium position θ and A_x can be obtained by writing the moment equation of equilibrium about point A and the force equation of equilibrium along the y axis, respectively.

$$\begin{aligned} \sum M_A = 0; & \quad 900 \sin \theta \cos \theta (0.6) - 300 \sin \theta (0.6) - 300 \cos \theta (0.45) = 0 \\ & \quad 540 \sin \theta \cos \theta - 180 \sin \theta - 135 \cos \theta = 0 \end{aligned}$$

Solving by trial and error yields
 $\theta = 23.083^\circ = 23.1^\circ$ **Ans.**

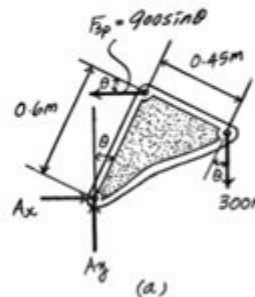
$$\begin{aligned} + \uparrow \sum F_y = 0; & \quad A_y - 300 = 0 \\ & \quad A_y = 300 \text{ N} \end{aligned}$$

Ans.

Using the result $\theta = 23.083^\circ$ and writing the force equation of equilibrium along the x axis,

$$\begin{aligned} \rightarrow \sum F_x = 0 & \quad A_x - 900 \sin 23.083^\circ = 0 \\ & \quad A_x = 352.86 \text{ N} = 353 \text{ N} \end{aligned}$$

Ans.



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The truss is supported by a pin at A and a roller at B. Determine the support reactions.

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