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chapter introduces the concept of equilibrium . The conditions
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for equilibrium and the equations of equilibrium for particles and rigid bodies are given in the scalar and vector forms. The method of writing these equations using the free-body diagram (FBD) and the method of solving the equations are given.

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Engineering Mechanics - Statics Chapter 11 Problem 11-5

Each member of the pin-connected mechanism has mass m_1 . If the spring is unstretched when $\theta = 0^\circ$, determine the required stiffness k so that the mechanism is in equilibrium when $\theta = 30^\circ$.

Units Used: $1 \text{ kN} = 10^3 \text{ N}$ Given: $m_1 = 8 \text{ kg}$ $\theta = 30^\circ$ $L = 300 \text{ mm}$ $M = 0 \text{ Nm}$ $g = 9.81 \text{ m/s}^2$ Solution: $y_1 = L \sin \theta$

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Equations of Equilibrium: From the free-body diagram of the cantilever beam, Fig. a, A_x , A_y , and M_A can be obtained by writing the moment equation of equilibrium about point A.

Ans. $M_A = 20.2 \text{ kN}\cdot\text{m}$

Ans. a $+\circlearrowleft M_A = 0; M_A - 6(1.5) - 4 \cos 30^\circ (1.5 \sin 30^\circ) - 4 \sin 30^\circ (3 + 1.5 \cos 30^\circ) = 0.$

$A_y = 8 \text{ kN}$

$+ \circlearrowleft F_y = 0; A_y - 6 - 4 \sin 30^\circ = 0.$

$A_x = 3.46 \text{ kN}; + \circlearrowright F_x = 0; 4 \cos 30^\circ - A_x = 0$

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Equations of Equilibrium. Assume that for equilibrium, the
tension along the length of cord CAD is constant. Thus, $F=W$.
Assuming that the tension in cord AB reaches the limit first,
then $T_{AB}=80$ lb. Referring to the FBD shown in Fig. a, \sum
 $F_x=0$; $W \sin u - 80 \sin 20^\circ = 0$. $W = 80 \sin 20^\circ \sin u (1) + c$
 $F_y=0$; $80 \cos 20^\circ - W - W \cos u = 0$. $W =$

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