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introduces the concept of equilibrium . The conditions 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 m1. If the spring is unstretched when ? = 0?, determine the required stiffness k so that the mechanism is in equilibrium when ? = ?0. Units Used: kN 10 3 = N Given: m1 = 8kg ?= 30 deg L = 300 mm M = 0Nm? g 9.81 m s 2 = Solution: y1 L 2 ? ? ? ? ? ?

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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 TAB=80 lb. Referring to the FBD shown in Fig. a, S+ ?Fx=0; W sin u-80 sin 20°= 0. W= 80 sin 20° sin u (1) +c? Fy=0; 80 cos 20°-W-W cos u= 0. W=

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