

Engineering Mechanics Equilibrium Chapter

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Engineering Mechanics Equilibrium Chapter StudySoup This chapter 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 m_1 . If the spring is unstretched when $\theta = 0^\circ$, determine the required stiffness k so that the mechanism is in equilibrium when $\theta = \theta_0$. Units Used: $kN \cdot 10^3 = N$ 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: $y_1 L^2 (| () |)$

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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. 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) $\sum F_y=0$; $80 \cos 20^\circ - W - W \cos u = 0$. $W =$

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