

## Engineering Mechanics Equilibrium Chapter

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### Engineering Mechanics Equilibrium Chapter

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 Equilibrium Chapter

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### ME 101: Engineering Mechanics

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,  $\sum F_x=0$ ;  $W \sin u-80 \sin 20^\circ=0$ .  $W=80 \sin 20^\circ \sin u(1)+c \sum F_y=0$ ;  $80 \cos 20^\circ-W-W \cos u=0$ .  $W=$

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### Chapter 2: Force and Force Systems - Engineering Mechanics ...

A2: Study of mechanics of deformable bodies and fluid mechanics's basic requirement is rigid body mechanics. It is very much required for the design, analysis of structural members, electrical devices, mechanical components, encountered in the field of engineering.

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