

Engineering Mechanics Equilibrium Chapter

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Engineering Mechanics Equilibrium Chapter

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Force equilibrium (mechanical eq.) □(Mechanical) equilibrium requires that the concurrent forces that act on the body satisfy □The particle in a equilibrium system must satisfy □Since both must be satisfied, the material point then must have zero acceleration, $a = 0$ $R = \sum F = 0$ $R = \sum F = m \cdot a$

Chapter 3 Equilibrium of concurrent forces

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The block has a weight of 20 lb and is being hoisted at uniform velocity. Determine the angle u for equilibrium and the force in cord AB. B. F. 20 A. C. u D. SOLUTION. Equations of Equilibrium. Assume that for equilibrium, the tension along the length of cord CAD is constant. Thus, $F=20$ lb. Referring to the FBD shown in Fig. a,

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