

## Engineering Mechanics Equilibrium Chapter

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### Engineering Mechanics Equilibrium Chapter

The concept of equilibrium is the most basic and most important concept in engineering analysis. The concept must be really understood by every student. The ability to understand mechanics and many other engineering disciplines is dependent on mastering the concept of equilibrium. 3.1.2 Particles and Rigid Bodies. Particles.

**Chapter 3: Equilibrium – Engineering Mechanics – Statics**  
7 MEM202 Engineering Mechanics - Statics MEM 3.3 Equilibrium of A Particle 2-D Example ( ) 0.866 0.5 33.16 2.59 0 sin60 sin30 sin236 sin165 sin sin sin

### Chapter 3 Statics of Particles

CHAPTER 1 ENGINEERING MECHANICS I 1.1.Verification of Lame’s Theorem: If three concurrent forces are in equilibrium, Lame’s theorem states that their magnitudes are proportional to the sine of the angle between the other forces.

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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.a

### Chapter 3 Equilibrium of concurrent forces

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### ME 101: Engineering Mechanics

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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