

CHAPTER OVERVIEW

9: Statics and Torque

How can we guarantee that a body is in equilibrium and what can we learn from systems that are in equilibrium? There are actually two conditions that must be satisfied to achieve equilibrium. These conditions are the topics of the first two sections of this chapter.

[9.0: Prelude to Statics and Torque](#)

[9.1: The First Condition for Equilibrium](#)

[9.2: The Second Condition for Equilibrium](#)

[9.3: Stability](#)

[9.4: Applications of Statics, Including Problem-Solving Strategies](#)

[9.5: Simple Machines](#)

[9.6: Forces and Torques in Muscles and Joints](#)

[9.E: Statics and Torque \(Exercises\)](#)

Thumbnails: Relationship between force (F), torque(τ), momentum (p), and angular momentum (L) vectors in a rotating system. (r) is the radius. (Public domain; Yawe).

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