

Essential Trig-based PHYSICS Study Guide Workbook

Volume 1: The Laws of Motion

- 1. $\Sigma F_x = 0$ and $\Sigma F_y = 0$ for objects at rest or moving with constant velocity.
- 2. $\Sigma F_x = ma_x$ and $\Sigma F_y = ma_y$ for objects with constant acceleration.
- 3. $\Sigma \tau = 0$ for objects in static equilibrium.
- 4. $\Sigma \tau = I\alpha$ for objects with constant angular acceleration.

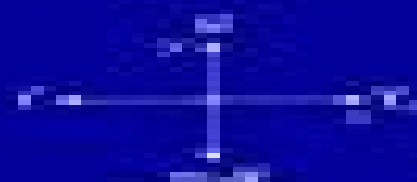


Figure 1: Rigid body in static equilibrium.

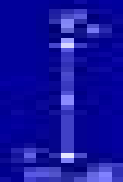


Figure 2: Rigid body in static equilibrium.

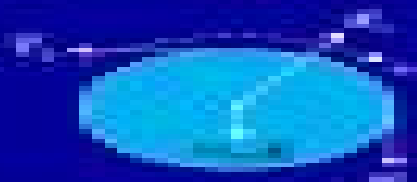


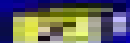
Figure 3: Rigid body in static equilibrium.

1. $\Sigma F_x = 0$ and $\Sigma F_y = 0$ for objects at rest or moving with constant velocity.

2. $\Sigma F_x = ma_x$ and $\Sigma F_y = ma_y$ for objects with constant acceleration.

3. $\Sigma \tau = 0$ for objects in static equilibrium.

4. $\Sigma \tau = I\alpha$ for objects with constant angular acceleration.



Chris McMullen, Ph.D.



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