

Equilibrium - Physics 12 - Unit 3 Cheat Sheet by goldennfluff (goldennfluff) via cheatography.com/209545/cs/46534/

Formulas

ΣF=0

τ=rFsinθ

Σ_T=0

Key Concepts

 F_{net} is a vector \rightarrow decompose to $\Sigma F_X{=}0$ and $\Sigma F_V{=}0$

 $\boldsymbol{\theta}$ = the angle the rope/wire makes with the "ceiling"

Translational Equilibrium: (in this course) zero velocity systems

Rotational Equilibrium: involves a pivot and lever → uses torque (τ)

To Remember

 θ = the angle a rope/wire makes with the surface/ceiling

pivot position determines which way F is going (CW or CCW)

Slanted beams - think of them parallel to the ground and the forces slanted instead

 F_N is present when rope/wire is on the ground



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Published 31st May, 2025. Last updated 31st May, 2025. Page 1 of 1. Sponsored by CrosswordCheats.com
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