

SiQuENC: Angular impulse-momentum theorem (calc.-based)

Neatly and graphically represent situation(s)

Carefully read the problem three times.

For each situation, draw system and relevant aspects of environment.

use dashed bubble(s) to indicate object(s) in system.

indicate axis of rotation and positive sense of rotation.

Identify requested unknowns.

Illustration of **initial** situation

Illustration of **final** situation

Graphically represent quantities and their relationships

Bar chart

Initial ang. momenta & supplied ang. impulse

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.....

.....

Bar chart

Final angular momenta

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.....

.....

Identify relevant allowed starting point (in) equation(s)

$$\Sigma L_i + \int_{t=t_i}^{t=t_f} \left(\sum_{\substack{\text{EXT} \\ \text{ON SYS}}} \tau \right) dt = \Sigma L_f$$

	Object	$L = I\omega$ (can use $L_{\text{PARTICLE}} = mvr_{\perp}$)
1		
2		
3	Rotational impulse	$\left(\sum_{\text{EXT}} \tau \right) \Delta t =$
Σ		

	Object	$L = I\omega$ (can use $L_{\text{PARTICLE}} = mvr_{\perp}$)
1		
2		
3		
Σ		

(Continue on separate sheet).

Use numbered steps to show REASoNing

Communicate