

• Rotational kinematics

- kinematics is the description of motion
- The kinematics of rotational motion describes the relationship among rotational angle, angular velocity, angular acceleration and time.

Example:

- 1.) Find the reaction forces at A and B:

Equation of Equilibrium:

(a) $\sum F_y = 0 = -F_A + F_B - 1000\text{N} = 0$

$$1000\text{N} = F_B - F_A$$

(b) $\sum M_B = 0$

$$1\text{m} \times F_A - 2\text{m} \times 1000\text{N} = 0$$

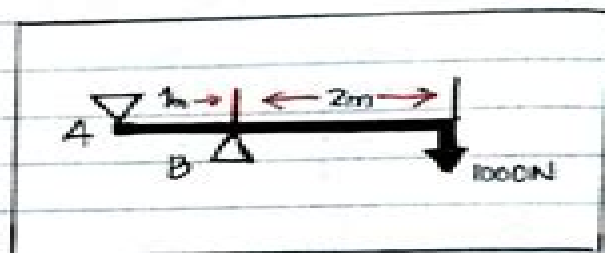
$$1\text{m} \times F_A = 2000\text{N} \cdot \text{m}$$

$$F_A = 2000\text{N}$$

$$1000\text{N} = F_B - F_A$$

$$1000\text{N} + 2000\text{N} = F_B$$

$$F_B = 3000\text{N}$$



- 2.) An object with the moment of inertia of $2\text{kg} \cdot \text{m}^2$ rotates at 1 rad/s .
What is the angular momentum of the object.

Soln:

Given: $I = 2\text{kg} \cdot \text{m}^2$

$$\omega = 1\text{ rad/s}$$

$$L = (2\text{kg} \cdot \text{m}^2)(1\text{ rad/s})$$

$$L = 2\text{kg} \cdot \text{m}^2/\text{s}$$

Rotational Equilibrium And Rotational Dynamics Study Guide

Steven A. Leduc



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