

• 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:

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

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

$$(b) \quad \sum M_B = 0$$

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

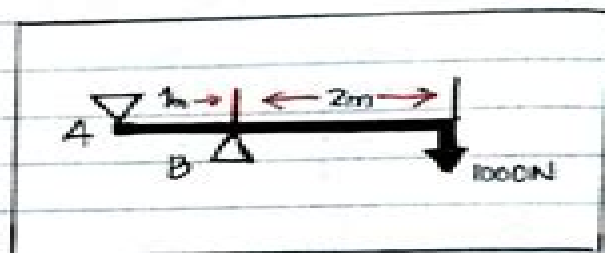
$$1\text{m} \times F_A = 2000\text{N} \cdot \text{m}$$

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

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

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

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



- 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:

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

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

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

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

Rotational Equilibrium And Rotational Dynamics Study Guide

ML Yell



Rotational Equilibrium And Rotational Dynamics Study Guide:

Rotational Equilibrium And Rotational Dynamics Study Guide Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Rotational Equilibrium And Rotational Dynamics Study Guide**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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